

SUSY & SUGRA HT 2026

Lecturer: *Dr Michèle Levi*

Course Information

Area Quantum Field Theory, Particle Physics and String Theory
Department Mathematical Institute University of Oxford
Credit 1 Unit

Prerequisites

Groups and Representations, Quantum Field Theory (QFT), Advanced QFT, General Relativity

Course Material

- Wess & Bagger, *Supersymmetry and Supergravity*, 1992 [chapters 1-10, 22 apps A-C]
- Weinberg, *The Quantum Theory of Fields Vol 3*, 2000 [chapters 24-27]
- Bertolini, *Supersymmetry*, 2025 [chapters 1-7]

Further QFT textbooks

- Weinberg, *The Quantum Theory of Fields Vols 1-2*, 2000
- Peskin & Schroeder, *An Introduction to Quantum Field Theory*, 1995

Lectures

Hillary term Weeks 1-8 **Wednesday 14:00-16:00** in lecture room **L5**

Course Assessment

Invigilated handwritten exam: Trinity term week 0

Intercollegiate Classes

Mr Lucas Leung

- Even Thursdays (weeks 2,4,6,8) **12:00-13:30** in class room **C4**
- Even Fridays (weeks 2,4,6,8) **12:00-13:30** in class room **C4**

Teaching Assistants

- *Mr Florian Gaar*
- *Ms Lauren Smyth*